



# 1998 Toxics Release Inventory

## TEXAS

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	244,299,677	43,745,514	288,045,191
Air Emissions	110,705,485	8,989,166	119,694,651
Surface Water Discharges	25,158,641	47,956	25,206,597
Underground Injection Class I Wells	88,189,920	3,943,904	92,133,824
Underground Injection Class II-V Wells	8,000	0	8,000
On-site Land Releases to RCRA Subtitle C Landfills	167,524	5,482,518	5,650,042
Other On-site Land Releases	20,070,107	25,281,970	45,352,077
Off-site Releases (Transfers Off-site to Disposal)*	14,858,228	9,336,127	24,194,355
<b>Total On- and Off-site Releases</b>	<b>259,157,905</b>	<b>53,081,641</b>	<b>312,239,546</b>
Recycled On-site	1,118,957,774	23,152,817	1,142,110,591
Recycled Off-site	149,833,364	1,905,919	151,739,283
Energy Recovery On-site	829,307,121	0	829,307,121
Energy Recovery Off-site	87,792,352	31,209,642	119,001,994
Treated On-site	1,455,423,890	57,107,619	1,512,531,509
Treated Off-site**	95,273,974	1,581,304	96,855,278
Quantity Released On- and Off-site***	261,684,178	51,394,055	313,078,233
<b>Total Production-related Waste Managed</b>	<b>3,998,272,653</b>	<b>166,351,356</b>	<b>4,164,624,009</b>
<b>Total Non-production-related Waste Managed</b>	<b>3,361,190</b>	<b>295,108</b>	<b>3,656,298</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	145,393,314	2,051,892	147,445,206
Energy Recovery	86,880,624	31,348,167	118,228,791
Treatment	37,751,243	1,188,727	38,939,970
Publicly Owned Treatment Works (POTWs)	54,211,206	9,943	54,221,149
Metals and Metal Compounds*	47,851	1,238	49,089
Non-metal TRI Chemicals**	54,163,355	8,705	54,172,060
Other Off-site Transfers****	197,474	0	197,474
Off-site Transfers to Disposal (not including metals to POTWs)	18,334,314	11,884,550	30,218,864
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>342,768,175</b>	<b>46,483,279</b>	<b>389,251,454</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\*Transfers reported without a valid waste management code.

### For More Information . . .

#### State Contact:

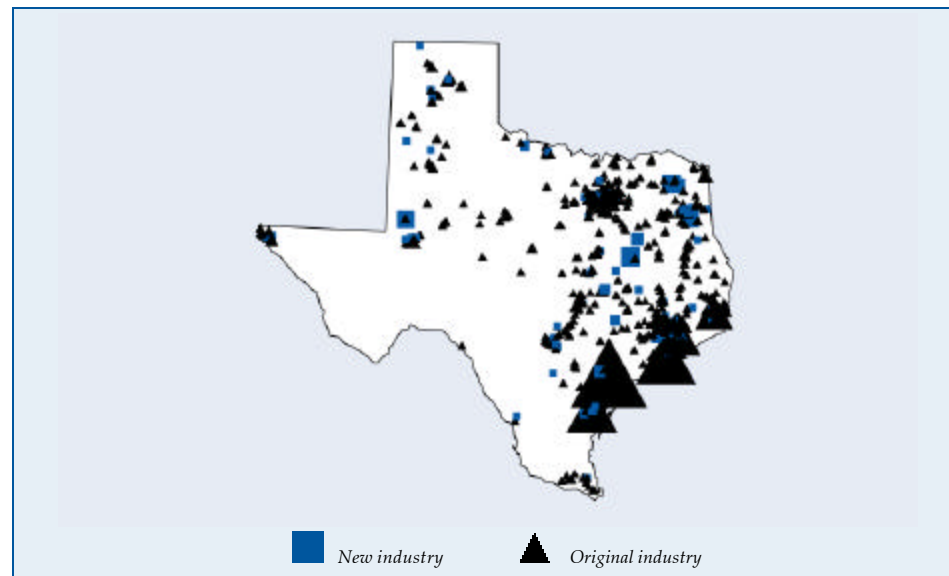
Ms. Anusuya Akanthas  
(512) 239-4TRI (4874)  
Fax: (512) 239-1515

#### EPA Regional Contact:

Warren Layne  
(214) 665-8013  
Morton E. Wakeland, Jr.  
(214) 665-8116  
Fax: (214) 665-6762

#### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Texas. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	19,759,614
Square Miles	261,914
Total Facilities	1,381
Total Forms	7,324
Form As	969

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	1	21	5
Pounds	259,157,905	53,081,641	312,239,546
<b>National Rank for Total On-site Releases**</b>			
Rank	1	22	5
Pounds	244,299,677	43,745,514	288,045,191
<b>National Rank for Total Releases within State***</b>			
Rank	1	21	5
Pounds	261,852,284	52,706,649	314,558,933
<b>National Rank for Production-related Waste Managed</b>			
Rank	1	9	1
Pounds	3,998,272,653	166,351,356	4,164,624,009

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1998 Toxics Release Inventory

## TEXAS

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Nitrate compounds	394	23,400,437	14,202,544	1,311	10,127	37,614,813	750	955	9,172
7664-41-7	Ammonia	8,642,508	419,856	16,105,266	194,838	227,359	25,589,827	136,145	379,607	65,090
67-56-1	Methanol	12,476,138	132,879	6,410,899	12,610	584,937	19,617,463	275,325	584,704	4,490
74-85-1	Ethylene	17,233,457	0	4,217	3	342	17,238,019	0	341	1
—	Chromium compounds	14,613	21,135	10,190	15,231,119	1,103,586	16,380,643	18,027	1,290,560	66,005
7697-37-2	Nitric acid	46,602	10	11,907,405	156	212,532	12,166,705	50,260	212,532	0
115-07-1	Propylene	9,207,157	0	2,870	1	114	9,210,142	0	114	0
110-54-3	n-Hexane	7,973,061	1,346	2,675	2,562	49,871	8,029,515	0	48,436	1,435
75-05-8	Acetonitrile	166,772	12,414	5,972,990	19	1,102,220	7,254,415	21,728	1,102,168	52
108-88-3	Toluene	5,034,299	7,004	250,465	16,078	152,786	5,460,632	2,335	146,696	7,324

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Barium compounds	61,720	14,515	250	14,313,321	6,527,220	20,917,026	2,760	6,509,041	18,179
—	Manganese compounds	59,026	3,954	0	6,545,247	1,015,778	7,624,005	104	1,015,778	0
—	Zinc compounds	13,134	671	5	2,617,929	1,522,926	4,154,665	6,189	225,840	1,297,086
7647-01-0	Hydrochloric acid	3,786,163	0	0	0	0	3,786,163	0	0	0
7664-39-3	Hydrogen fluoride	2,388,047	0	0	0	950	2,388,997	241	948	2
—	Lead compounds	2,443	295	5	332,716	1,443,233	1,778,692	7,738	155,675	1,297,085
7664-93-9	Sulfuric acid	1,682,850	0	0	0	0	1,682,850	0	0	0
—	Copper compounds	11,053	7,074	255	1,243,694	357,912	1,619,988	4,006	164,422	202,519
7439-92-1	Lead	1,871	0	11,068	1,292,212	88,750	1,393,901	488	73,983	14,791
77-73-6	Dicyclopentadiene	5	0	1,081,201	0	0	1,081,206	0	0	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1998 Toxics Release Inventory

## TEXAS

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Du Pont Victoria Plant, Victoria, Victoria	450,754	2,942	24,371,111	0	15,116	1,003	24,840,926	134	0
BASF Corp., Freeport, Brazoria	773,562	15,017,755	2,836,174	0	0	0	18,627,491	30,180	0
Elementis Chromium L.P., Corpus Christi, Nueces	89,800	6,250	0	0	0	15,200,000	15,296,050	821,005	0
BP Chemicals Inc., Green Lake Facility, Port Lavaca, Calhoun	151,535	880	12,244,978	0	551	0	12,397,944	6,997	0
Du Pont Beaumont Plant, Beaumont, Jefferson	402,220	1,361	10,373,873	0	0	0	10,777,454	0	21,506
Sterling Chemicals Inc., Texas City, Galveston	771,100	28,333	8,110,787	0	0	0	8,910,220	38,047	196
Solutia — Chocolate Bayou, Alvin, Brazoria	73,329	0	7,044,308	0	4,600	0	7,122,237	0	0
Amoco Petroleum Prods. Refining Business Group, Texas City, Galveston	3,320,030	89,290	2,220,858	0	0	1,065	5,631,243	35,027	1
Dow Chemical Co., Freeport Texas, Freeport, Brazoria	4,217,496	220,880	0	0	55,373	80,919	4,574,668	0	0
Lyondell Chemical Worldwide Inc., Channelview, Harris	525,467	66	3,723,761	0	0	0	4,249,294	334,407	837

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Limestone Electric Generating Station, Jewett, Limestone	312,471	45	0	0	0	5,182,000	5,494,516	0	0
Martin Lake Steam Electric Station & Lignite, Tatum, Rusk	290,120	320	0	0	0	4,969,900	5,260,340	74	5
Monticello Steam Electric Station & Lignite Mine, Mount Pleasant, Titus	1,380,720	260	0	0	0	3,814,900	5,195,880	21	0
Waste Control Specialist L.L.C., Andrews, Andrews	4,952	0	0	0	4,442,731	0	4,447,683	0	0
Welsh Power Plant, Pittsburg, Camp	1,167,030	9,245	0	0	0	1,669,950	2,846,225	0	0
Big Brown Steam Electric Station & Lignite Mine, Fairfield, Freestone	141,110	20	0	0	0	2,218,600	2,359,730	22	0
Coletto Creek Power Plant, Fannin, Goliad	765,030	440	0	0	0	1,216,400	1,981,870	0	0
H. W. Pirkey Power Plant, Hallsville, Harrison	122,867	12,975	0	0	0	1,672,010	1,807,852	0	0
W.A. Parish Electric Generating Station, Thompson, Fort Bend	566,401	5,065	0	0	0	1,232,200	1,803,666	0	0
Sandow Steam Electric Station, Rockdale, Milam	74,690	0	0	0	0	1,496,690	1,571,380	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1998 Toxics Release Inventory

## TEXAS

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Du Pont Victoria Plant, Victoria, Victoria	0	0	22,818,450	0	11,312,817	909,592	24,841,060	59,881,919	0
BASF Corp., Freeport, Brazoria	0	421,000	21,043,200	217,980	61,253,300	40,000	18,698,179	101,673,659	147
Elementis Chromium L.P., Corpus Christi, Nueces	0	0	0	0	0	435,000	15,291,800	15,726,800	0
BP Chemicals Inc., Green Lake Facility, Port Lavaca, Calhoun	0	0	50,737,900	0	1,911,116	21,521	12,397,940	65,068,477	11,313
Du Pont Beaumont Plant, Beaumont, Jefferson	1,177,960	0	16,413,061	247,181	14,880,198	2,642,853	10,777,403	46,138,656	25,714
Sterling Chemicals Inc., Texas City, Galveston	130,000	1,097	139,505,891	433	5,083,425	57,668	8,999,897	153,778,411	0
Solutia — Chocolate Bayou, Alvin, Brazoria	760,000	0	0	0	14,869,788	0	7,084,118	22,713,906	0
Amoco Petroleum Prods. Refining Business Group, Texas City, Galveston	2,414,000	243,188	0	0	5,135,000	2,110	5,717,678	13,511,976	1,063
Disposal Sys. Inc., Deer Park, Harris	0	8,216	0	1,995,485	0	0	5,583,690	7,587,391	0
Lyondell Chemical Worldwide Inc., Channelview, Harris	12,000,000	21,000	42,117,949	1,968,860	14,657,200	227,300	4,628,296	75,620,605	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Limestone Electric Generating Station, Jewett, Limestone	0	0	0	0	1,290,000	0	5,487,000	6,777,000	0
Martin Lake Steam Electric Station & Lignite, Tatum, Rusk	0	0	0	0	528,700	15	5,260,500	5,789,215	0
Monticello Steam Electric Station & Lignite Mine, Mount Pleasant, Titus	0	0	0	0	8,406,100	0	5,196,000	13,602,100	0
San Miguel Electric Cooperative Inc., Christine, Atascosa	0	0	0	0	2,733,118	0	3,806,609	6,539,727	0
Encycle Texas Inc., Corpus Christi, Nueces	12,686,894	431,124	0	0	0	0	2,875,041	15,993,059	107
Welsh Power Plant, Pittsburg, Camp	0	0	0	0	191,300	0	2,859,300	3,050,600	0
Southwestern Public Service Co., Harrington Station, Amarillo, Potter	0	0	0	0	94,000	0	2,475,000	2,569,000	0
Big Brown Steam Electric Station & Lignite Mine, Fairfield, Freestone	0	0	0	0	100,600	25	2,359,600	2,460,225	0
Coletto Creek Power Plant, Fannin, Goliad	0	0	0	0	122,200	0	1,979,440	2,101,640	0
H. W. Pirkey Power Plant, Hallsville, Harrison	0	0	0	0	950,000	0	1,811,420	2,761,420	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.